

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,231	12/31/2003	John D. Willems JR.	2003-085-TAP	8903	
7590 12/12/2006			EXAMINER		
Storage Technology Corporation One StorageTek Drive Louisville, CO 80028-4309			CHEN, TIANJIE		
			ART UNIT	PAPER NUMBER	
ŕ			2627		
			DATE MAILED: 12/12/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·	Applicat	tion No.	Applicant(s)			
Office Action Summary		10/750,	231	WILLEMS ET AL.			
		Examine	er	Art Unit			
		Tianjie C	Chen	2627			
The Ma	AILING DATE of this communica	tion appears on ti	he cover sheet v	vith the correspondence ac	ddress		
WHICHEVER - Extensions of tim after SIX (6) MO - If NO period for r - Failure to reply w Any reply receive	ED STATUTORY PERIOD FOR IS LONGER, FROM THE MAIL IN TH	LING DATE OF T 87 CFR 1.136(a). In no ecation. ory period will apply and by statute, cause the ap	HIS COMMUN event, however, may a will expire SIX (6) MO oplication to become A	ICATION. Treply be timely filed INTHS from the mailing date of this of the company of the comp	·		
Status	•						
2a) ☐ This act	sive to communication(s) filed on the sion is FINAL . 2b) his application is in condition for accordance with the practice	This action is allowance excep	non-final. ot for formal ma	•	e merits is		
Disposition of C	aims						
4a) Of th 5)⊠ Claim(s 6)⊠ Claim(s 7)□ Claim(s) <u>1-20</u> is/are pending in the app ne above claim(s) <u>19 and 20</u> is/s) <u>1-14</u> is/are allowed.) <u>15-18</u> is/are rejected.) is/are objected to.) are subject to restriction	are withdrawn fro	•	٦.			
Application Pape	ers						
10) The draw Applican Replace	cification is objected to by the E wing(s) filed on is/are: a t may not request that any objection ment drawing sheet(s) including the n or declaration is objected to be) accepted or b on to the drawing(s) e correction is requ	be held in abeya ired if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 C			
Priority under 35	U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice of Drafts	ences Cited (PTO-892) person's Patent Drawing Review (PTO closure Statement(s) (PTO/SB/08) il Date	-948)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application			

Non-Final Rejection

Election/Restrictions

1. Applicant's election without traverse of Species II, drawn from Figs. 6-10, claims 1-4 and 7-20 in the reply filed on 09/26/2006 is acknowledged. However, claims 19 and 20 recite "a slot having a tapered width;" which only shows in Species I, not in Species II. Therefore, claims 19 and 20 should not be elected. Claims 5 and 6 rejoin for allowance of independent claim 1. Finally claims 1-18 are under consideration.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 15-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 15 recites, "Wherein the impact diversion mechanism diverts the impact force to a side surface of the shuttle." However, the specification states that in the elected embodiment for Species II "he impact force resulting from insertion of a storage medium into the shuttle is conveyed to the protrusion and the flange." The protrusion and the flange are on fixed plates not on the side surface of the shuttle. One skilled in

and/or use the invention.

Claims 16-18 are rejected for their dependence from claim 15.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for

patent in the United States.

3. Claims 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Ando

et al (US 4,831,472).

Claim 15, Ando et al shows a load and unload apparatus in Fig. 3, which

inherently diverts an impact force applied to the load and unload apparatus,

including: a shuttle 25 having a cavity configured to accept a storage medium; an

elevator mechanism for reciprocally elevating and lowering the shuttle; and the

elevator mechanism functions as an impact diversion mechanism for somehow

diverting an impact force resulting from insertion of the storage medium into the

cavity in the shuttle.

Claim 16, Ando et al further shows a protrusion (at the top of 26) extending

from the side surface and a flange 36a located within the apparatus.

Claim 17, Ando et al further shows a flange (at the top of 26) located on a fixed

side plate of the apparatus.

Application/Control Number: 10/750,231 Page 4

Art Unit: 2627

Claim 18, Ando et al further shows a protrusion 29a extending from the side surface of the shuttle that is brought into abutment with the flange on application of the impact force to the shuttle.

Allowable Subject Matter

4. Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance:

• With regard to independent claim 1, as an exemplary reference, Ando et al (US 4,831,472) shows a storage medium load and unload apparatus for diverting a storage medium insertion impact force, comprising: a shuttle having a first pin with a first radius extending from a side surface of the shuttle and a protrusion having a posterior edge extending from the side surface, wherein the posterior edge is displaced a first distance from a center of the first pin; and a fixed side plate having a flange with a vertical edge and a first slot with which the first pin is engaged has an anterior edge and a curved posterior edge with a first width between the anterior edge and the curved posterior edge, wherein the vertical edge of the flange is displaced a second distance from the anterior edge of the first slot; but fails to show that the first slot has a curved posterior edge, and wherein a sum of the first width and the second distance is greater than the sum of the first distance and the first radius.

• Since independent claim 1 is allowed, claims 5 and 6 rejoin and are allowed.

Art Unit: 2627

• Applicant asserts: in this invention "A protrusion extending from a shuttle

side surface is positioned to impact a flange of a fixed side plate of the

apparatus such that the impact force resulting from insertion of a storage

medium into the shuttle is conveyed to the protrusion and the flange

(Specification, p. 19).

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tianjie Chen whose telephone number is 571-272-

7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/750,231

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Page 6

Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TIANJIE CHEN